

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

1-186. (canceled)

187. (currently amended) A well testing system, comprising:

a formation test assembly positioned in a wellbore of the well, the formation test assembly including an internal chamber divided into first and second portions by a fluid separation device reciprocably ~~and~~ sealingly received in the chamber, the fluid separation device, during reciprocation thereof within the chamber, being sealingly engaged with the chamber, the first chamber portion being in selective fluid communication with first and second zones intersected by the wellbore, ~~and~~ the second chamber portion being in fluid communication with a remote location , and the fluid separation device displacing in a first direction in the chamber when the formation fluid is flowed into the first chamber portion from the first zone.

188. (previously presented) The system according to claim 187, wherein the formation test assembly further includes a sampler, the sampler taking a sample of the formation fluid in the first chamber portion.

189. (previously presented) The system according to claim 188, wherein the first chamber portion has a volume greater than that of the sampler.

190. (previously presented) The system according to claim 187, wherein the formation test assembly includes a perforating gun which perforates the first zone, thereby permitting fluid flow from the first zone into the first chamber portion.

191. (previously presented) The system according to claim 187, wherein the formation test assembly includes a perforating gun which perforates the second zone, thereby permitting fluid flow from the first chamber portion into the second zone.

192. (previously presented) The system according to claim 187, wherein the formation test assembly includes at least one fluid property sensor, the sensor sensing at least one fluid property of the formation fluid in the first chamber portion.

193. (previously presented) The system according to claim 192, wherein an indication of the fluid property sensed by the sensor is transmitted to the remote location while the sensor senses the fluid property.

194. (previously presented) The system according to claim 192, wherein an indication of the fluid property sensed by the sensor is stored in the formation test assembly while the sensor senses the fluid property.

195. (previously presented) The system according to claim 192, wherein the sensor is positioned between a tester valve and a circulating valve of the formation test assembly.

196. (previously presented) The system according to claim 192, wherein the sensor is a fluid identification sensor.

197. (previously presented) The system according to claim 192, wherein the sensor is a solids sensor.

198. (previously presented) The system according to claim 192, wherein the sensor is a fluid density sensor.

199. (previously presented) The system according to claim 187, wherein the formation test assembly prevents the formation fluid from flowing to the earth's surface while the formation fluid flows through the formation test assembly.

200. (previously presented) The system according to claim 187, wherein the formation test assembly is interconnected in a tubular string.

201. (previously presented) The system according to claim 187, wherein the formation test assembly is interconnected in a coiled tubular string.

202. (previously presented) The system according to claim 187, wherein the formation test assembly is connected to an electrical conductor in the wellbore.

203. (currently amended) A well testing system, comprising:

a formation test assembly positioned in a wellbore of the well, the formation test assembly including an internal chamber divided into first and second portions by a fluid separation device reciprocably and ~~sealingly~~ received in the chamber, the fluid separation device, during reciprocation thereof within the chamber, being sealingly engaged with the chamber, the first chamber portion being in selective fluid communication with first and second zones intersected by the wellbore, the second chamber portion being in fluid communication with a remote location, and the formation test assembly including inlet and outlet openings in selective fluid communication with the first chamber portion, the inlet opening being in fluid communication with the first zone, and the outlet opening being in fluid communication with the second zone.

204. (previously presented) The system according to claim 203, wherein a first check valve is connected between the inlet opening and the first chamber portion.

205. (previously presented) The system according to claim 204, wherein a second check valve is connected between the first chamber portion and the outlet opening.

206. (previously presented) The system according to claim 187, wherein the fluid separation device is a plug received within a tubular string.

207. (previously presented) The system according to claim 206, further comprising a sampler attached to the plug.

208. (previously presented) The system according to claim 187, wherein an annulus is formed between the formation test assembly and the wellbore, and wherein the formation test assembly includes a packer isolating a first portion of the annulus in communication with the first zone from a second portion of the annulus in communication with the second zone.

209. (previously presented) The system according to claim 187, further comprising a line providing communication between the formation test assembly and the remote location.

210. (previously presented) The system according to claim 209, wherein the line is a fiber optic line.

211. (previously presented) The system according to claim 209, wherein the line transmits commands from the remote location, thereby remotely controlling operation of the formation test assembly.

212. (previously presented) The system according to claim 187, wherein the formation test assembly includes a flow control device selectively controlling flow of the formation fluid between the first chamber portion and at least one of the first and second zones.

213. (previously presented) The system according to claim 212, wherein the flow control device is electrically operated.

214. (previously presented) The system according to claim 212, wherein the flow control device is a valve selectively permitting and prevent flow therethrough.

215. (previously presented) The system according to claim 212, wherein the flow control device is a choke selectively regulating a rate of flow therethrough.

216. (previously presented) The system according to claim 187, wherein a pressure differential exists from the first zone to the first chamber portion, and the pressure differential inducing the formation fluid to flow from the first zone into the first chamber portion.

217. (previously amended) A well testing system, comprising:

a formation test assembly positioned in a wellbore of the well, the formation test assembly including an internal chamber divided into first and second portions by a fluid separation device reciprocably and sealingly received in the chamber, the first chamber portion being in selective fluid communication with first and second zones intersected by the wellbore, the second chamber portion being in fluid communication with a remote location, a pressure differential existing from the first zone to the first chamber portion, the pressure differential inducing the formation fluid to flow from the first zone into the first chamber portion, and pressure applied to the second chamber portion inducing the formation fluid to flow from the first chamber portion into the second zone.

218. (previously presented) The system according to claim 217, wherein pressure is applied to the second chamber portion via a tubular string extending between the formation test assembly and the remote location.

219. (canceled)

220. (previously presented) The system according to claim 187, wherein the fluid separation device displaces in a second direction opposite to the first direction when the formation fluid is flowed from the first chamber portion into the second zone.

221. (previously presented) The system according to claim 220, wherein the fluid separation device displaces in the second direction in response to pressure applied to the fluid separation device at the remote location.